# International Journal of Game Theory

A Publication of the Institute for Advanced Studies, Vienna

### **Editorial Board**

Robert J. Aumann, Hebrew University of Jerusalem Claude Berge, University of Paris Karl H. Borch, Norwegian School of Economics and Business Administration John C. Harsanyi, University of California, Berkeley William F. Lucas, Cornell University Michael Maschler, Hebrew University of Jerusalem Oskar Morgenstern, New York University Guillermo Owen, Rice University Bezalel Peleg, Hebrew University of Jerusalem Anatol Rapoport, University of Toronto Robert Reichardt, University of Vienna Reinhard Selten, University of Bielefeld Lloyd S. Shapley, RAND Corporation Martin Shubik, Yale University Patrick Suppes, Stanford University Mitsuo Suzuki, Tokyo Institute of Technology Robert M. Thrall, Rice University N. N. Vorob'ev, Academy of Sciences, Leningrad

## **Managing Editor**

Gerhard Schwödiauer, Institute for Advanced Studies, Vienna



## International Journal of Game Theory

Hobert I Auman, below U. Servereny or England

School of Lorence and Jane of Authorization

Millian E Managet interests of allowers their strong

William E Lorent to an anti-frage transition of the property

Order Manager to a server of their strong of their strong

Order Manager to a server of the server of

Composed and printed by: "Journalfranz" Arnulf Liebing GmbH + Co., Würzburg



## CONTENTS

raus P and H Evich C- Th	
haus, R., and H. Frick: Game Theoretical Treatment of Material Accountability Prob-	
ms Part 1	11
and oring across of the reast solution in the arether thad ratio Differential Course	-
The state of the s	10
o, v.11. Dy namics of Cooperative Games	- 0
satisficatively without Strategies	- 0
A Solution Concept of n-Person Noncooperative Games	21
o, m Note on Transferable Utility	
and the contribution of a riayer to a Game	19
The Committee on the Nucleonis of the "Airport Committee on the "Airport Committee on the Nucleonis of the Nucle	9
mu, b.c., and R.G. Valava: The Propensity to Distint and the Distintion Musicalian	
a Characteristic Function Game	15
is, v. 2., and b. Zumir. On a Repeated Game Without a Recursive Structure	17
c Normal Distribution and Repeated Games	101
d. Existence of Equilibrium Pairs in Continuous Games	9
"G, d. T. On the Subject of Non Optimal Play in Zero Sum Extensive Camas: "The	
ap r nenomenon"	107
11.1.1., and 11.1. Bobet. Bayesian Games as Stochastic Processes	-
w. 1.: Noisy Duel with Uncertain Existence of the Shot.	220
On S-Equivalence and Isomorphism of Games in Characteristic Function Form	209
A.: The Nucleofus and Kernel for Simple Games or Special Valid Inequalities for	
- I I Inear Integer Programs	227
Service	
T.: A Counterexample in Linear-Quadratic Games: Existence of Nonlinear Nash	
utions	
ormationally Nonunique Equilibrium Solutions in Differential Games	165
p, T., and E. Kohlberg: The Theory of Stochastic Games with Zero Stop Probabilities. 1	.66
S.: On the Regions of Linearity for the Nucleolus and their Computation	.66
nputation of the Nucleolus for Superadditve 4-Person-Games	51
P.: Some Results on Values of Finite and Infinite Games.	.52
Varet, L.A. and H. Moulin: An Application of Correlation to Duopoly.	65
is, M.: An Extension of Krasnoselskii's Fixed-Point Theorem of Multivalued Mappings.	67
ed Theorems for Set-To-Set Mapping and a Generalization of the Brouwer's Fixed	67
nt Theorem	
ann, J.: The Core for a Class of Market Games	68
t, A.C., R. Selten, D. Crockett, Sh. Gill and J. Moore: Bargaining Experiments with In-	64
iplete Information	
: Proportional Solutions to Bargaining Situations	68
P., and S. Sorin: Cooperation and Competition in a Short Run Duopoly Model with	63
Run Constraintsts	
2: A Note on Manipulation of Large Voting Schemes	69
d, JP.: Private Incentives for Market Survey in Oligopolistic Markets	69
ote on Information Value Theory for Experiments Defined in Extensive Form 17	59
E: The Shapley Value as a you Neumann Margaretann Utility	70
.E.: The Shapley Value as a von Neumann-Morgenstern Utility	70
N: Fine Klasse von Mehrnersonen Spielon ches von Neuen 1	/0
, N.: Eine Klasse von Mehrpersonen-Spielen ohne von-Neumann'sche Lösung 17	/1
r, A.: "Fair" Economic Contraction in Simple Linear Economies: The Nucleolus 16 dvantageous Syndicates in Public Goods Economies: An Example	53
Avantageous Syndicates in Public Coods From miss. A. Francis	

Selten, R.: The Equity Principle in Economic Behavior	
Suzuki, M., and M. Nakayama: The Cost Assignment of the Cooperative Water Resource	
Development: A Game Theoretical Approach	
Telgársky, R.: Spaces defined by Topological Games	
Yair, T.: The Diagonal Property on Reproducing Spaces.	ge.
Zachow, EW.: Der Erwartungswert einer Nutzenfunktion als Beurteilungskriterium für	50
mischte Strategien	
Correction Note.	
Correction Note	10